// This sheet cor	mpiles d		Info," "Perfori DJECT INFOR		," and "Monite	oring Plan" int	o one compre	hensive data set, e		and type. F WETLAND N	AITICATI	<u> </u>			 	
Project Name	State	USACE	Bank Type	Sponsor	Status	Approval Date	НБМ	Cowardin	Modifier	Hydrologic Regime	Creation		Enhancement	Preservation	HPS	Specific HPS
Animas River Wetlands	со	Sacramento	Private Commercial	Animas River Wetlands, LLC	Approved	8/2/2010			Deep Marsh	Permanently inundated	Yes	No	No	No	Yes	Permanently inundated; 12-28 in target; should stay b/w 4-36 in at all times
Animas River Wetlands	со	Sacramento	Private Commercial	Animas River Wetlands, LLC	Approved	8/2/2010		Open Water	Pond	Permanently inundated	Yes	No	No	No	Yes	Permanently inundated; 48-72 in target for deepest portions
Animas River Wetlands	со	Sacramento	Private Commercial	Animas River Wetlands, LLC	Approved	8/2/2010		Forested	Cottonwood	Seasonally deeply saturated	Yes	No	No	No	Yes	Seasonally deeply saturated; 12-48 in below surface for min 14 consec days during growing season for 5/10 yrs
Animas River Wetlands	со	Sacramento	Private Commercial	Animas River Wetlands, LLC	Approved	8/2/2010			Wet Meadow	Seasonally saturated	Yes	No	No	No	Yes	Seasonally saturated; min 14 consec days of ponding or water table max 12 in during growing season for min 5/10 yrs
Animas River Wetlands	со	Sacramento	Private Commercial	Animas River Wetlands, LLC	Approved	8/2/2010		Scrub/Shrub	Willow-Alder	Seasonally saturated	Yes	No	No	No	Yes	Seasonally saturated; min 14 consec days of ponding or water table max 12 in during growing season for min 5/10 yrs
Animas River Wetlands	со	Sacramento	Private Commercial	Animas River Wetlands, LLC	Approved	8/2/2010			Marsh	Semi- permanently inundated	Yes	No	No	No	Yes	Semi-permanently inundated; 0-14 in for min 50% of growing season in normal years
El Paso County UMBRELLA - Falcon Vista	со	Albuquerque	Single-Client	El Paso County Environmental Services Dept.	Approved	4/30/2013		Emergent	Persistent		No	Yes	Yes	Yes	Yes	duration of saturation/inundation in COE quantitative definition by wetland type; 70% of dominant species must be FAC or
Finger Rock Preserve	СО	Sacramento	Private Commercial	Finger Rock Preserve LLC	Approved	7/14/2008		Forested			Yes	Yes	No	No	Yes	Aérial photography; detailed hydrology map; saturation threshold will be at 12-18 in level; FAC- neutral veg test as
Finger Rock Preserve	со	Sacramento	Private Commercial	Finger Rock Preserve LLC	Approved	7/14/2008		Grass/Grasslike			Yes	Yes	No	No	Yes	Aerial photography; detailed hydrology map; saturation threshold will be at 12-18 in level; FAC- neutral veg test as
Finger Rock Preserve	со	Sacramento	Private Commercial	Finger Rock Preserve LLC	Approved	7/14/2008		Scrub/Shrub			Yes	Yes	No	No	Yes	detailed hydrology map; saturation threshold will be at 12-18 in level; FAC- neutral veg test as
Finger Rock Preserve	со	Sacramento	Private Commercial	Finger Rock Preserve LLC	Approved	7/14/2008	Slope				Yes	Yes	No	No	Yes	Aerial photography; detailed hydrology map; saturation threshold will be at 12-18 in level; FAC- neutral veg test as

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Reference	Outcome-	ROLOGIC PE	RFORMAN	Water	1	Water	Time					Subsurface	ING RE	QUIREMENTS Collection	Monitoring	Functional	NOTES
Area	Based	Quantitative	Saturation	Table	Inundation	Criteria	Criteria	Weather	Format	Data	Quantitative	Readings	Season	Frequency /2 wks	Period Until final PS	Assessment	Notes
Yes	Yes	Yes	No	No	Yes	Range	No	No	Tables	Staff gauge - depth of inundation	Yes	No	Yes	growing, /2 months	have been achieved for 2		
Yes	Yes	Yes	No	No	Yes	Range	No	No	Tables	Staff gauge - depth of inundation	Yes	No	Yes	otherwise /2 wks growing, /2 months otherwise	consec vrs Until final PS have been achieved for 2 consec vrs		
Yes	Yes	Yes	Yes	Yes	No	Range	Min/Max, Prob	No	Tables	Staff gauge - depth of inundation	Yes	No	Yes	/2 wks growing, /2 months otherwise	Until final PS have been achieved for 2 consec yrs		
Yes	Yes	Yes	Yes	Yes	No	Min/Max	Min/Max, Prob	No	Tables	Staff gauge - depth of inundation	Yes	No	Yes	/2 wks growing, /2 months otherwise	Until final PS have been achieved for 2 consec yrs		
Yes	Yes	Yes	Yes	Yes	No	Min/Max	Min/Max, Prob	No	Tables	Staff gauge - depth of inundation	Yes	No	Yes	/2 wks growing, /2 months otherwise	Until final PS have been achieved for 2 consec yrs		
Yes	Yes	Yes	No	No	Yes	Range	Prob	Yes	Tables	Staff gauge - depth of inundation	Yes	No	Yes	/2 wks growing, /2 months otherwise	Until final PS have been achieved for 2 consec vrs		
No	Yes	Yes	No	No	Yes	Range	No	No	List, paragraphs	List of primary/ secondary hydrology indicators, hydrophytic veg cover	No	No	Yes	Annually	5 yrs AND 3 yrs of no supplemental watering after PS met		
No	Yes	Yes	Yes	No	No	Range	No	No	List	Soil saturation via monitoring wells (12-18 in)	Yes	Yes	Yes	/2 wks growing	5 yrs		
No	Yes	Yes	Yes	No	No	Range	No	No	List	Soil saturation via monitoring wells (12-18 in)	Yes	Yes	Yes	/2 wks growing	5 yrs		
No	Yes	Yes	Yes	No	No	Range	No	No	List	Soil saturation via monitoring wells (12-18 in)	Yes	Yes	Yes	/2 wks growing	5 yrs		
No	Yes	Yes	Yes	No	No	Range	No	No	List	Soil saturation via monitoring wells (12-18 in)	Yes	Yes	Yes	/2 wks growing	5 yrs		

Four Mile Creek	со	Omaha	Single-Client	Denver Water	Approved	8/27/2007			Fen		No	Yes	Yes	No	Yes	Saturated within 12 in for >= 66% of growing season, and/or avg seasonal table depth
Four Mile Creek	со	Omaha	Single-Client	Denver Water	Approved	8/27/2007	Mineral Flats				No	Yes	Yes	No	Yes	within 14.5 in Saturated within 12 in for >=47% of growing season (edge areas may be saturated for 12.5% of growing season), and/or avg seasonal table depth
Limon	со	Albuquerque	Single-Client	Colorado DOT	Approved	7/1/1996		Emergent	Persistent		Yes	No	No	No	Yes	75% cover by herbaceous FACW or wetter; 50% cover by woody FACW or
Limon	со	Albuquerque	Single-Client	Colorado DOT	Approved	7/1/1996		Emergent	Non-Persistent		Yes	No	No	No	Yes	wetter 75% cover by herbaceous FACW or wetter; 50% cover by woody FACW or
Limon	со	Albuquerque	Single-Client	Colorado DOT	Approved	7/1/1996		Broadleaf Deciduous	Willow		Yes	No	No	No	Yes	race wetter 75% cover by herbaceous FACW or wetter; 50% cover by woody FACW or wetter
Limon	со	Albuquerque	Single-Client	Colorado DOT	Approved	7/1/1996		Aquatic Bed	Rooted Vascular		Yes	No	No	No	Yes	race wetter 75% cover by herbaceous FACW or wetter; 50% cover by woody FACW or wetter
Marshall	со	Omaha	Public Commercial	City of Boulder	Sold-Out	4/19/2000		Scrub/Shrub							Yes	1987
Marshall	со	Omaha	Public Commercial	City of Boulder	Sold-Out	4/19/2000		Emergent							Yes	1987
Marshall	со	Omaha	Public Commercial	City of Boulder	Sold-Out	4/19/2000		Aquatic Bed							Yes	1987
Mesa County Wetland UMBRELLA	со	Sacramento	Public Commercial	Mesa County Dept. of Public Works	Approved	6/1/2005			Wet Meadow		Yes	Yes	Yes	No	Yes	Site plan specifies that wetland hydrology should be exhibited 30 days after recontouring
Mesa County Wetland UMBRELLA	СО	Sacramento	Public Commercial	Mesa County Dept. of Public Works	Approved	6/1/2005		Emergent			Yes	Yes	Yes	No	Yes	Site plan specifies that wetland hydrology should be exhibited 30 days after recontouring
Middle South Platte River	со	Omaha	Private Commercial	Land and Water Resources, Inc.	Approved	5/20/1999		Emergent		Seasonally flooded	Yes	No	No	No	Yes	1987
Middle South Platte River	со	Omaha	Private Commercial	Land and Water Resources, Inc.	Approved	5/20/1999		Emergent		Semi- permanently flooded	Yes	No	No	No	Yes	1987

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Yes	Yes	Yes	Yes	Yes	No	Min/Max	Prob	No	Paragraphs	Duration of soil saturation (12 in), Yes depth to table	Yes	Yes	July- September	5 yrs or at discretion of IRT	p specifies HPS for wetland type, one p explains how HPS were
Yes	Yes	Yes	Yes	Yes	No	Min/Max	Prob	No	Paragraph	Duration of soil saturation (12 in), Yes depth to table	Yes	Yes	July- September	5 yrs or at discretion of IRT	derived from ref HPS Format: one p specifies HPS for wetland type, one p explains how HPS were derived from ref
No	Yes	Yes	No	No	No	No	No	No	List	Acreage, wetland classes, vegetative No monitoring	No	Yes	Fall	5 yrs or at discretion of IRT	Functional assessments used in mitigation ratios
No	Yes	Yes	No	No	No	No	No	No	List	Acreage, wetland classes, vegetative No monitoring	No	Yes	Fall	5 yrs or at discretion of IRT	ratios Functional assessments used in mitigation ratios
No	Yes	Yes	No	No	No	No	No	No	List	Acreage, wetland classes, vegetative No monitoring	No	Yes	Fall	5 yrs or at discretion of IRT	ratios Functional assessments used in mitigation ratios Functional
No	Yes	Yes	No	No	No	No	No	No	List	Acreage, wetland classes, vegetative No monitoring	No	Yes	Fall	5 yrs or at discretion of IRT	Functional assessments used in mitigation ratios
No	No	No	No	No	No	No	No	No	List	Saturation soil horizon via shallow Yes monitoring wells	Yes	No	Unspecified	Until sold-out	
No	No	No	No	No	No	No	No	No	List	Saturation soil horizon via shallow Yes monitoring wells	Yes	No	Unspecified	Until sold-out	
No	No	No	No	No	No	No	No	No	List	Saturation soil horizon via shallow Yes monitoring wells	Yes	No	Unspecified	Until sold-out	
No	No	No	No	No	No	No	Min/Max	No	List	Piezometers - depth to GW, depth to saturation, depth of inundation (gauges) Piezometers -	Yes	Yes	At least annually	5 yrs+	
No	No	No	No	No	No	No	Min/Max	No	List	depth to GW, depth to saturation, depth of inundation (gauges)	Yes	Yes	At least annually	5 yrs+	
No	No	No	No	No	No	No	No	No	List	Depth to GW - shallow wells	Yes	Yes	2/month, plus constant electronic readings, for 5 months/yr	Until PS have been achieved	Written report of field tile locations submitted to COE; monitoring reports contain hydrographs
No	No	No	No	No	No	No	No	No	List	Depth to GW - shallow wells	Yes	Yes	2/month, plus constant electronic readings, for 5 months/yr	Until PS have been achieved	Written report of field tile locations submitted to COE; monitoring reports contain hydrographs

Mile High	СО	Omaha	Private Commercial	Mile High Wetland Group LLC	Sold-Out	10/12/1999		Marsh	Yes	No	Yes	No	Yes	water delivery/control systems operational; piezometric evidence of achievement of design water elevation (SW or GW) can be furnished by
Mile High	со	Omaha	Private Commercial	Mile High Wetland Group LLC	Sold-Out	10/12/1999	Emergent	Persistent	Yes	No	Yes	No	Yes	water delivery/control systems operational; piezometric evidence of achievement of design water elevation (SW or GW) can be furnished by
Mile High	со	Omaha	Private Commercial	Mile High Wetland Group LLC	Sold-Out	10/12/1999	Aquatic Bed	Rooted Vascular	Yes	No	Yes	No	Yes	water delivery/control systems operational; piezometric evidence of achievement of design water elevation (SW or GW) can be furnished by
Mile High	со	Omaha	Private Commercial	Mile High Wetland Group LLC	Sold-Out	10/12/1999		Wet Meadow	Yes	No	Yes	No	Yes	water delivery/control systems operational; piezometric evidence of achievement of design water elevation (SW or GW) can be furnished by
Mile High	со	Omaha	Private Commercial	Mile High Wetland Group LLC	Sold-Out	10/12/1999	Scrub/Shrub	Willow Carr	Yes	No	Yes	No	Yes	systems operational; piezometric evidence of achievement of design water elevation (SW or GW) can be furnished by
Riverdale	со	Omaha	Private Commercial	South Platte Wetlands LLC	Approved	2/1/2002		Wet Meadow	Yes	No	Yes	No	Yes	Saturation within 18 in
Riverdale	со	Omaha	Private Commercial	South Platte Wetlands LLC	Approved	2/1/2002	Emergent		Yes	No	Yes	No	Yes	Saturation within 3 in
Rocky Mountain Institute	со	Sacramento	Private Commercial	Rocky Mountain Institute	Suspended	6/2/2005		Grass/Grasslike	No	Yes	No	No	Yes	1987
Rocky Mountain Institute	со	Sacramento	Private Commercial	Rocky Mountain Institute	Suspended	6/3/2005	Scrub/Shrub	Willow Carr	No	Yes	No	No	Yes	1987
Rocky Mountain Institute	СО	Sacramento	Private Commercial	Rocky Mountain Institute	Suspended	6/1/2005	Forested		No	Yes	No	No	Yes	1987
Spring Water Ranch	со	Sacramento	Private Commercial	Spring Water Ranch, LLC	Suspended	3/31/2005	Forested		Yes	Yes	No	No	Yes	Aerial photography; detailed hydrology map; saturation threshold will be at 12-18 in level; FAC- neutral veg test as

No	No	No	No	No	No	No	No	No	List	Piezometers	Yes	Yes	Yes	demonstrate	4 growing seasons	Hydrologic regimes for each wetland type specified in phasing plan
No	No	No	No	No	No	No	No	No	List	Piezometers	Yes	Yes	Yes	demonstrate	4 growing seasons	Hydrologic regimes for each wetland type specified in phasing plan
No	No	No	No	No	No	No	No	No	List	Piezometers	Yes	Yes	Yes	demonstrate	4 growing seasons	Hydrologic regimes for each wetland type specified in phasing plan
No	No	No	No	No	No	No	No	No	List	Piezometers	Yes	Yes	Yes	demonstrate	4 growing seasons	Hydrologic regimes for more specific wetland type specified in phasing plan
No	No	No	No	No	No	No	No	No	List	Piezometers	Yes	Yes	Yes	uemonstrate	4 growing seasons	Hydrologic regimes for each wetland type specified in phasing plan
No	Yes	Yes	Yes	No	No	Min/Max	No	No	Paragraphs	Piezometers	Yes	Yes	Yes	Annualiv	4 growing seasons	Hydrologic regimes for more specific wetland type specified in phasing plan Hydrologic
No	Yes	Yes	Yes	No	No	Min/Max	No	No	Paragraphs	Piezometers	Yes	Yes	Yes	Annually	4 growing seasons	Hydrologic regimes for each wetland type specified in phasing plan
No	No	No	No	No	No	No	No	No	List	Hydroperiod, extent/ duration of inundation, GW monitoring, precip		Yes	Yes	seasons, then	5 yrs annually, then every 3 yrs in perpetuity	Site plan specifies that if veg is wrong, water levels will be manipulated
No	No	No	No	No	No	No	No	No	List	Hydroperiod, extent/ duration of inundation, GW monitoring, precip		Yes	Yes	growing seasons, then	5 yrs annually, then every 3 yrs in perpetuity	Site plan specifies that if veg is wrong, water levels will be manipulated
No	No	No	No	No	No	No	No	No	List	Hydroperiod, extent/ duration of inundation, GW monitoring, precip		Yes	Yes	growing seasons, then	5 yrs annually, then every 3 yrs in perpetuity	Site plan specifies that if veg is wrong, water levels will be manipulated
No	Yes	Yes	Yes	No	No	Range	No	No	List	Soil saturation via monitoring wells (12-18 in)	Yes	Yes	Yes	/2 wks growing	5 growing seasons	

Spring Water Ranch	СО	Sacramento	Private Commercial	Spring Water Ranch, LLC	Suspended	3/31/2005		Grass/Grasslike		Yes	Yes	No	No	Yes	Aerial photography; detailed hydrology map; saturation threshold will be at 12-18 in level; FAC- neutral veg test as
Spring Water Ranch	СО	Sacramento	Private Commercial	Spring Water Ranch, LLC	Suspended	3/31/2005		Scrub/Shrub		Yes	Yes	No	No	Yes	Aerial photography; detailed hydrology map; saturation threshold will be at 12-18 in level; FAC- neutral veg test as
WetBank Gunnison	со	Sacramento	Private Commercial	Stillwater Preservation LLC	Approved	8/2/1999			Grass/Grasslike	No	Yes	No	No	Yes	1987
WetBank Gunnison	со	Sacramento	Private Commercial	Stillwater Preservation LLC	Approved	8/2/1999		Forested		No	Yes	No	No	Yes	1987
WetBank Gunnison	со	Sacramento	Private Commercial	Stillwater Preservation LLC	Approved	8/2/1999		Scrub/Shrub		No	Yes	No	No	Yes	1987
Lower/Middle Yellowstone UMBRELLA -	МТ	Omaha	Private Commercial	Yellowstone Mitigation LLC	Approved	6/25/2014	Riverine	Emergent		No	Yes	No	No	Yes	1987
Ringling Lower/Middle Yellowstone UMBRELLA - Schwarzkoph-	МТ	Omaha	Private Commercial	Yellowstone Mitigation LLC	Approved	6/25/2014	Riverine	Forested		No	Yes	No	No	Yes	1987
Waage Lower/Middle Yellowstone UMBRELLA - Schwarzkoph-	MT	Omaha	Private Commercial	Yellowstone Mitigation LLC	Approved	6/25/2014	Riverine	Rock Bottom		No	Yes	No	No	Yes	1987
Waage Lower/Middle Yellowstone UMBRELLA - Schwarzkoph-	MT	Omaha	Private Commercial	Yellowstone Mitigation LLC	Approved	6/25/2014	Riverine	Scrub/Shrub		No	Yes	No	No	Yes	1987
Waage Lower/Middle Yellowstone UMBRELLA - Schwarzkoph- Waage	MT	Omaha	Private Commercial	Yellowstone Mitigation LLC	Approved	6/25/2014	Riverine	Unconsolidated Shore		No	Yes	No	No	Yes	1987
MARS Emond Ranch ILF	MT	Omaha	ILF Private Commercial	Montana Aquatic Resource Services	Approved	3/31/2017			Prairie Pothole	No	Yes	No	No	Yes	Hydrology within 12 in during growing season (6/23-8/28)
MARS Yellowstone ILF	MT	Omaha	ILF Private Commercial	Montana Aquatic Resource Services	Approved	5/2/2017		Emergent		No	No	No	Yes	No	0
MARS Yellowstone ILF	MT	Omaha	ILF Private Commercial	Montana Aquatic Resource Services	Approved	5/2/2017		Forested		No	No	No	Yes	No	0
MARS Yellowstone ILF	MT	Omaha	ILF Private Commercial	Montana Aquatic Resource Services	Approved	5/2/2017		Scrub/Shrub		No	No	No	Yes	No	0
Middle Missouri River	МТ	Omaha	Private Commercial	Middle Missouri Mitigation LLC	Approved	2/24/2012	Depressional	Emergent		No	No	Yes	No	Yes	1987
Middle Missouri River	MT	Omaha	Private Commercial	Middle Missouri Mitigation LLC	Approved	2/24/2012	Slope	Emergent		No	No	Yes	No	Yes	1987
Middle Missouri River	МТ	Omaha	Private Commercial	Middle Missouri Mitigation LLC	Approved	2/24/2012	Riverine	Unconsolidated Bottom		No	No	Yes	No	Yes	1987

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No	Yes	Yes	Yes	No	No	Range	No	No		Soil saturation via monitoring wells (12-18 in)	Yes	Yes	Yes	/2 wks growing	5 growing seasons		
No	Yes	Yes	Yes	No	No	Range	No	No	List	Soil saturation via monitoring wells (12-18 in)	Yes	Yes	Yes	/2 wks growing	5 growing seasons		
No	No	No	No	No	No	No	No	No	1	WRAP	No	No	No	Annually	5 yrs	WRAP, HGM, Ecodata	
No	No	No	No	No	No	No	No	No	List	"Hydroperiod duration/ mag"; WRAP	No	No	No	Annually	5 yrs	WRAP, HGM, Ecodata	
No	No	No	No	No	No	No	No	No	List	"Hydroperiod duration/ mag"; WRAP	No	No	No	Annually	5 yrs	WRAP, HGM, Ecodata	
No	No	No	No	No	No	No	No	No	List	MWAM	No	No	No	Annually	5 yrs+	MWAM	
No	No	No	No	No	No	No	No	No	List	MWAM	No	No	No	Annually	5 yrs+	MWAM	
No	No	No	No	No	No	No	No	No	List	MWAM	No	No	No	Annually	5 yrs+	MWAM	
No	No	No	No	No	No	No	No	No	List	MWAM	No	No	No	Annually	5 yrs+	MWAM	
No	No	No	No	No	No	No	No	No	List	MWAM	No	No	No	Annually	5 yrs+	MWAM	
No	Yes	Yes	No	Yes	No	Min/Max	Fixed	No	Tables	Soil pits - depth to GW, photography	Yes	Yes	No	Years 1, 3	5 yrs		
No	No	No	No	No	No	No	No	No	Tables	Photography	No	No	No	Unspecified	5 yrs	IN/IN/IΔIN/I	MWAM in years 1 and 5
No	No	No	No	No	No	No	No	No	Tables	Photography	No	No	No	Unspecified	5 yrs	$\pm N/(NN/\Delta)N/($	MWAM in years 1 and 5
No	No	No	No	No	No	No	No	No	Tables	Photography	No	No	No	Unspecified	5 yrs	$+N/(N/\Delta N)$	MWAM in years 1 and 5
No	No	No	No	No	No	No	No	No	List	MWAM	No	No	No	Annually	5 yrs+	MWAM	
No	No	No	No	No	No	No	No	No	List	MWAM	No	No	No	Annually	5 yrs+	MWAM	
No	No	No	No	No	No	No	No	No	List	MWAM	No	No	No	Annually	5 yrs+	MWAM	

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Upper Clark Fork - Wetland UMBRELLA	MT	Omaha	Private Commercial	Nevada Spring Creek Partners, LLC	Approved	9/21/2006		Prairie Pothole		No	Yes	No	No	Yes	1987
Upper Clark Fork - Wetland UMBRELLA	MT	Omaha	Private Commercial	Nevada Spring Creek Partners, LLC	Approved	9/21/2006		Wet Meadow		No	Yes	No	No	Yes	1987
Upper Clark Fork - Wetland UMBRELLA	MT	Omaha	Private Commercial	Nevada Spring Creek Partners, LLC	Approved	9/21/2006	Emergent			No	Yes	No	No	Yes	1987
Upper Clark Fork - Wetland UMBRELLA	MT	Omaha	Private Commercial	Nevada Spring Creek Partners, LLC	Approved	9/21/2006	Forested			No	Yes	No	No	Yes	1987
Upper Clark Fork - Wetland UMBRELLA	MT	Omaha	Private Commercial	Nevada Spring Creek Partners, LLC	Approved	9/21/2006	Scrub/Shrub			No	Yes	No	No	Yes	1987
Upper Missouri	MT	Omaha	Private Commercial	SRI Missouri Headwaters, LLC	Approved	3/7/2013	Emergent			No	Yes	No	Yes	Yes	1987
Upper Missouri	МТ	Omaha		SRI Missouri	Approved	3/7/2013	Forested			No	Yes	No	Yes	Yes	1987
Upper Missouri	МТ	Omaha	Private	SRI Missouri Headwaters, LLC	Approved	3/7/2013	Scrub/Shrub			No	Yes	No	Yes	Yes	1987
Upper Yellowstone	мт	Omaha	Private Commercial	Beartooth Mitigation LLC	Approved	7/27/2011	Emergent			No	Yes	Yes	No	Yes	1987
Upper Yellowstone	МТ	Omaha	Private Commercial	Beartooth Mitigation LLC	Approved	7/27/2011	Scrub/Shrub			No	Yes	Yes	No	Yes	1987
Ducks Unlimited - Beaver Bay	ND	Omaha	ILF Private Nonprofit	Ducks Unlimited - Great Plains Region	Approved	10/27/2016		Prairie Pothole		Yes	Yes	No	No	Yes	expected to be seasonal, interior could be considered semi-
Ducks Unlimited - Wahlund	ND	Omaha	ILF Private Nonprofit	Ducks Unlimited - Great Plains Region	Approved	2/4/2016		Prairie Pothole		Yes	Yes	Yes	Yes	Yes	permanent Fringe should be expected to be seasonal, interior could be considered semi- permanent
NDDOT UMBRELLA - Foss	ND	Omaha	Single-Client	NDDOT	Approved	6/24/2013		Prairie Pothole		No	Yes	No	No	Yes	1987
NDDOT UMBRELLA - Herda	ND	Omaha	Single-Client	NDDOT	Approved	6/24/2013		Prairie Pothole		No	Yes	No	Yes	Yes	1987
NDDOT UMBRELLA - Kirkeby/ Schuster	ND	Omaha	Single-Client	NDDOT	Approved	8/3/2015		Prairie Pothole		No	Yes	No	No	Yes	1987
NDDOT UMBRELLA - Kueber	ND	Omaha	Single-Client	NDDOT	Approved	8/3/2015		Prairie Pothole		No	Yes	No	No	Yes	1987
NDDOT UMBRELLA - Manning	ND	Omaha	Single-Client	NDDOT	Approved	6/24/2013		Prairie Pothole		No	Yes	No	Yes	Yes	1987

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	**************************************	***************************************								gauges, precip,							regime specified
	***************************************	***************************************								depth to				During 2	At least 5 yrs,		by wetland
No	No	No	No	No	No	No	No	No	List	· ·	Yes	Yes	Yes	month growing	AND 3 yrs after		1 ' 1
		***************************************								saturation				season	remedial action		location in site
		***************************************								(surface, 0-6 in, 6-							plan proposed
	-									12 in l Piezometers,							conditions Hydrologic
	000000000000000000000000000000000000000	***************************************								gauges, precip,							regime specified
										depth to				During 2	At least 5 yrs,		by wetland
No	No	No	No	No	No	No	No	No	List	saturation	Yes	Yes	Yes	month growing	AND 3 yrs after		location in site
										(surface, 0-6 in, 6-				season	remedial action		plan proposed
	e e rementante e e e e e e e e e e e e e e e e e e	***************************************								1, ,							1 1
										12 in l Piezometers,							conditions Hydrologic
		***************************************	***************************************							gauges, precip,				During 2	At least 5 yrs,		regime specified
No	No	No	Na	No	No	No	No	No	lict	depth to	Yes	Voc	Yes	_	AND 3 yrs after		by wetland
INO	No	INO	No	No	No	INO	INO	No	List	saturation	res	Yes	162				location in site
	macocococrate or or a		-							(surface, 0-6 in, 6-				season	remedial action		plan proposed
										12 in l Piezometers,							conditions Hydrologic
	**	***************************************															
										gauges, precip,				During 2	At least 5 yrs,		regime specified
No	No	No	No	No	No	No	No	No	List	depth to	Yes	Yes	Yes	_	AND 3 yrs after		by wetland
										saturation				season	remedial action		location in site
		***************************************								(surface, 0-6 in, 6-				3643011	remediar decion		plan proposed
										12 in l Piezometers,							conditions Hydrologic
	The second secon	American								gauges, precip,							regime specified
		***************************************								depth to				During 2	At least 5 yrs,		by wetland
No	No	No	No	No	No	No	No	No	List	saturation	Yes	Yes	Yes	month growing	AND 3 yrs after		location in site
	000000000000000000000000000000000000000													season	remedial action		1 1
										(surface, 0-6 in, 6-							plan proposed
	N. I	N1_							1			N					conditions
No	No	No	No	No	No	No	No	No	List	MWAM	No	No	No	Annually	5 yrs+	MWAM	
No	No	No	No	No	No	No	No	No	List	MWAM	No	No	No	Annually	5 yrs+	MWAM	
No	No	No	No	No	No	No	No	No	List	MWAM	No	No	No	Annually	5 yrs+	MWAM	
													1.7.				
	0.000									Depth to saturation							
No	No	No	No	No	No	No	No	No	List	(surface, 0-6 in, 6-	Yes	Yes	No	Annually	5 yrs+		
										12 in) Depth to							***************************************
	-									saturation					_		
No	No	No	No	No	No	No	No	No	List	(surface, 0-6 in, 6-	Yes	Yes	No	Annually	5 yrs+		
	***************************************	***************************************								12 in)							

No	Yes	No	No	No	Yes	No	No	No	Paragraphs	Delineation	No	No	No	Annually	5 yrs		

~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~								••••									
No	Yes	No	No	No	Yes	No	No	No	Paragraphs	Dolinostion	No	No	No	Annually	5 yrs		
INO	163	INO	NO	INO	163	INO	INO	140	raiagiapiis	Delineation	140	INO	INO	Aillidally	J ylis		
										Inconcetient of			1	Annually for 5	In perpetuity, or		
No	No	No	No	No	No	No	No	No	List	Inspection of	No	No	Yes	-	until waived by		
	***************************************	Communication								infrastructure				every 5 yrs	Corps		
								***************************************		Inspection of				Annually for 5	In perpetuity, or		
No	No	No	No	No	No	No	No	No	List	Inspection of infrastructure	No	No	Yes	yrs, then once	until waived by	Vocamento	
	· ·									min astructure				every 5 yrs	Corps		
	***************************************	***************************************												Annually for 5	In perpetuity, or		
No	No	No	No	No	No	No	No	No	List	Inspection of	No	No	Yes		until waived by		
1										infrastructure			1	every 5 yrs	Corps	-	
	***************************************														1		
	a de la constante de la consta	8.			N. 1	h				Inspection of	9. 1 -	D.1 -			In perpetuity, or		
No	No	No	No	No	No	No	No	No	List	infrastructure	No	No	Yes		until waived by		
														every 5 yrs Annually for 5	Corps In perpetuity, or		
No	No	No	No	No	No	No	No	No	List	Inspection of	No	No	Yes	-	until waived by		
1,40	140	140	140	140	INO	140	140	140	LIST	infrastructure	NO	140	163				
L	noon									L				every 5 yrs	Corps		

NDDOT	Т	<u> </u>		T	1		Γ	I	I	T	}				т	<u></u>
UMBRELLA - Trego	ND	Omaha	Single-Client	NDDOT	Approved	6/24/2013			Prairie Pothole		No	Yes	No	Yes	Yes	1987
North Central Mitigation - Jandl	SD	Omaha	Private Commercial	North Central Mitigation LLC	Approved	1/3/2017			Prairie Pothole		Yes	Yes	Yes	No	Yes	1987
North Central Mitigation UMBRELLA - Hatch	SD	Omaha		North Central Mitigation LLC	Approved	4/28/2017	Riverine				Yes	No	No	No	Yes	Anticipated hydrologic regime - shallow ponding
SDDOT UMBRELLA - Anderson	SD	Omaha	Single-Client	SDDOT	Approved	6/4/2014			Prairie Pothole		Yes	No	Yes	No	Yes	1987
SDDOT UMBRELLA - Anderson	SD	Omaha	Single-Client	SDDOT	Approved	6/4/2014	Riverine				Yes	No	Yes	No	Yes	1987
SDDOT UMBRELLA - Weisbeck	SD	Omaha	Single-Client	SDDOT	Approved	6/10/2015			Prairie Pothole		Yes	No	Yes	No	Yes	1987
SDDOT UMBRELLA - Weisbeck	SD	Omaha	Single-Client	SDDOT	Approved	6/10/2015	Riverine				Yes	No	Yes	No	Yes	1987
Tetonka I	SD	Omaha	Private Commercial	Tetonka, LLP	Approved	6/20/2008		Emergent		Seasonally flooded	Yes	Yes	No	No	Yes	Range temporarily to seasonally flooded; annual spring flooding
Tetonka I	SD	Omaha	Private Commercial	Tetonka, LLP	Approved	6/20/2008		Aquatic Bed		Semi- permanently flooded	Yes	Yes	No	No	Yes	Range temporarily to seasonally flooded; annual spring flooding
Tetonka I	SD	Omaha	Private Commercial	Tetonka, LLP	Approved	6/20/2008		Emergent		Temporarily flooded	Yes	Yes	No	No	Yes	Range temporarily to seasonally flooded; annual spring flooding
Tetonka I	SD	Omaha	Private Commercial	Tetonka, LLP	Approved	6/20/2008		Forested		Temporarily flooded	Yes	Yes	No	No	Yes	Range temporarily to seasonally flooded; annual spring flooding
Tetonka I	SD	Omaha	Private Commercial	Tetonka, LLP	Approved	6/20/2008			Prairie Pothole		Yes	Yes	No	No	Yes	Range temporarily to seasonally flooded; annual spring flooding
Tetonka II	SD	Omaha	Private Commercial	Tetonka, LLP	Approved	12/29/2009			Prairie Pothole		Yes	No	Yes	No	Yes	Range temporarily to seasonally flooded; annual spring flooding >50% of yrs
Baileys' Meadow	UT	Sacramento	Private Commercial	Diversified Habitats, LLC	Terminated	9/30/1999			Marsh		Yes	No	No	No	Yes	Water delivery system inspected
Baileys' Meadow	UT	Sacramento	Private Commercial	Diversified Habitats, LLC	Terminated	9/30/1999			Wet Meadow		Yes	No	Yes	No	Yes	Water delivery system inspected
Inland Sea Shorebird Reserve	UT	Sacramento	Private Commercial	Rio Tinto Kennecott Utah Copper	Approved	11/25/2014	Tidal Fringe		Mudflats		No	Yes	No	No	No	0

			-								·				· · · · · · · · · · · · · · · · · · ·		
. .										Inspection of				1	In perpetuity, or		
No	No	No	No	No	No	No	No	No	List	infrastructure	No	No	Yes	1.	until waived by		
														every 5 yrs	Corps		
No	No	No	No	No	No	No	No	No	List	Photography	No	No	No	Annually	At least 5 yrs, or	HGM (prairie	
	110	140	140	140		140		1110	LIST	i notograpity		140		Amadity	10 yrs for forest	pothole)	
	4									List of primary/							
No	Yes	No	Mo	No	Voc	No	No	No	List	secondary	No	No	No	Annually	At least 5 yrs, or	HGM (prairie	
No	res	INO	No	No	Yes	INO	No	No	LIST	hydrology	INO	INO	INO	Annually	10 yrs for forest	pothole)	-
										indicators List of primary/							
	00000000000000000000000000000000000000																-
No	No	No	No	No	No	No	No	No	List	secondary	No	No	No	Annually	5 yrs+	HGM (prairie	
	4									hydrology				,	,	pothole)	
										indicators List of primary/							
	0									secondary							
No	No	No	No	No	No	No	No	No	List	hydrology	No	No	No	Annually	5 yrs+	HGM (riverine)	
								4 4 9									
										indicators List of primary/							
No	NI.	No	Ma	No	No	No	Ma	No	liat	secondary	Na	No	No	Ammuallu	F	HGM (prairie	
No	No	INO	No	No	No	No	No	No	List	hydrology	No	No	INO	Annually	5 yrs+	pothole)	-
										indicators List of primary/							
No	No	No	No	No	No	No	No	No	List	secondary	No	No	No	Annually	5 yrs+	HGM (riverine)	
	4 4 Million									hydrology				•	,		
								***************************************		indicators Depth, source,					At least 5 yrs,		
	-					***************************************				frequency,					AND 3 yrs after		
No	Yes	No	No	No	Yes	Range	No	No	List		Yes	Yes	Yes	Annually	remedial action,	HGM (prairie	
					1.05	runge				inundation; depth	,	1.03	103	, amaany	then in	pothole)	
																	-
•••••			•							to GW Depth, source,			***************************************		perpetuity At least 5 yrs,		
	000000000000000000000000000000000000000									frequency,					AND 3 yrs after	HGM (prairie	
No	Yes	No	No	No	Yes	Range	No	No	List	duration of	Yes	Yes	Yes	Annually	remedial action,	pothole)	
										inundation; depth					then in	potrioley	
										to GW Depth, source,					perpetuity At least 5 yrs,		
	9									frequency,					AND 3 yrs after		
No	Yes	No	No	No	Yes	Range	No	No	List		Yes	Yes	Yes	Annually	remedial action,	HGM (prairie	
INO	163	INO	NO	INO	165	nange	NO	NO	LIST	inundation; depth	res	162	163	Ailliually	then in	pothole)	
	***************************************					777				9							
										to GW Depth, source,					perpetuity At least 5 yrs,		
	4.									frequency,					AND 3 yrs after	HGM (prairie	
No	Yes	No	No	No	Yes	Range	No	No	List	duration of	Yes	Yes	Yes	Annually	remedial action,	pothole)	
	0.000									inundation; depth					then in	potriole)	
										to GW Depth, source,					perpetuity At least 5 yrs,		
	TRANSPORTER TO THE TOTAL TO THE									frequency,					AND 3 yrs after		
No	Yes	No	No	No	Vec	Rango	No	No	List	1	Yes	Yes	Yes	Annually	remedial action,	HGM (prairie	
110	162	NO	INU	INU	Yes	Range	140	140	List	inundation; depth	1 5	1 €2	162	Amually	then in	pothole)	
	000000000000000000000000000000000000000									to GW					nen in perpetuity		
														Annually, then			
	**************************************									Detailed hydrology				biannually	At least 5 yrs,		-
										map (frequency,				once credits	AND 3 yrs after	HGM (prairie	
No	Yes	No	No	No	Yes	Range	Prob	No	List	1	Yes	No	Yes	are released,	remedial action,	pothole)	
	***************************************									inundation); HGM				then every 5	then in	pouroie)	
	п									assessments					perpetuity		
										Water delivery				rloses			
No	No	No	No	No	No	No	No	No	Paragraphs		No	No	Yes	3/growing	5 yrs	HEP	
110	140	140	NO	INO	INO	NO	140	140	LaraRrahii?	functionality	110	INO	163	season	J 913	ITLE	-
	-									Water delivery							
No	No	No	No	No	No	No	No	No	Paragraphs		No	No	Yes	3/growing	5 yrs	HEP	
	посососопинис								J 5 12.13	functionality				season			
										Staff gauges -				Weekly during			
	or an annual resource of the contract of the c									nond surface				growing		A	Max/mean pond
No	No	No	No	No	No	No	No	No	List	elevation, pond	Yes	No	Yes	season, bi-	5 yrs+	HEP	depths predicted
	***************************************									diversions				weekly			pails predicted
										Taiver 310113			1	otherwise			

		~~~~~~~~~~~~~		***			·	~~~~~~	~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~	q-n-n-n-n-n-n-n-n-n-n-n-n-n-n-n-n-n-n-n			·	788800480000000000000000000000000000000
Inland Sea Shorebird Reserve	UT	Sacramento	Private Commercial	Rio Tinto Kennecott Utah Copper	Approved	11/25/2014		Emergent	Marsh		No	No	Yes	No	No	0
Inland Sea Shorebird Reserve	UT	Sacramento	Private Commercial	Rio Tinto Kennecott Utah Copper	Approved	11/25/2014			Playa		No	No	Yes	No	No	0
Inland Sea Shorebird Reserve	UT	Sacramento	Private Commercial	Rio Tinto Kennecott Utah Copper	Approved	11/25/2014	Saline Meadow				No	No	Yes	No	No	0
Machine Lake	UT	Sacramento	Private Commercial	R&P Wetlands & Waterfowl, LLC	Approved	8/31/2007			Marsh		No	Yes	Yes	No	Yes	Ponding for much of the spring and summer, refilled in fall; depth ranging from 1-4 ft
Machine Lake	UT	Sacramento	Private Commercial	R&P Wetlands & Waterfowl, LLC	Approved	8/31/2007			Wet Meadow		No	Yes	Yes	No	Yes	Shallow flooding and/or saturated soil conditions for much or spring and early summer, dry out in summer/fall
Machine Lake	UT	Sacramento	Private Commercial	R&P Wetlands & Waterfowl, LLC	Approved	8/31/2007			Playa		No	Yes	Yes	No		Shallow ponding 2-10 in; may occur in normal late fall/winter/early spring, or for MU 13, in late spring and early fall
UDOT Northern Utah County	UT	Sacramento	Single-Client	UDOT	Approved	6/29/2009		Forested			Yes	Yes	No	No	1	As-built, hydrology will support veg comparable to on-site reference
UDOT Northern Utah County	UT	Sacramento	Single-Client	UDOT	Approved	6/29/2009		Emergent			Yes	Yes	No	Yes	Yes	As-built, hydrology will support veg comparable to on-site reference
UDOT Northern Utah County	UT	Sacramento	Single-Client	UDOT	Approved	6/29/2009			Marsh		Yes	Yes	Yes	Yes	Yes	As-built, hydrology will support veg comparable to on-site reference
UDOT Northern Utah County	UT	Sacramento	Single-Client	UDOT	Approved	6/29/2009			Wet Meadow		Yes	Yes	Yes	Yes	Yes	As-built, hydrology will support veg comparable to on-site reference
Warner	UT	Sacramento	Private Commercial	James Warner	Terminated	4/25/2002			Marsh		Yes	Yes	Yes	No	Yes	Inundation >=6 in over 67% of site; continuous inundation during growing season Inundation >=6 in over
Warner	UT	Sacramento	Private Commercial	James Warner	Terminated	4/25/2002			Wet Meadow		Yes	Yes	Yes	No	Yes	Inundation >=6 in over 67% of site; continuous inundation during growing season
Dumbell Ranch	WY	Omaha	Private Commercial	Sweetwater River Conservancy LLC	Approved	2/27/2014		Emergent			No	Yes	Yes	No	Yes	1987
Dumbell Ranch	WY	Omaha	Private Commercial	Sweetwater River Conservancy LLC	Approved	2/27/2014	Riverine	Unconsolidated Bottom			No	Yes	Yes	No	Yes	1987

<u></u>										·				Wookly during		<del></del>	
No	No	No	No	No	No	No	No	No	List	Staff gauges - pond surface elevation, pond diversions	Yes	No	Yes	Weekly during growing season, bi- weekly otherwise Weekly during	5 yrs+	НЕР	Max/mean pond depths predicted
No	No	No	No	No	No	No	No	No	List	Staff gauges - pond surface elevation, pond diversions	Yes	No	Yes	growing season, bi- weekly	5 yrs+	НЕР	Max/mean pond depths predicted
No	No	No	No	No	No	No	No	No	List	Staff gauges - pond surface elevation, pond diversions	Yes	No	Yes	otherwise Weekly during growing season, bi- weekly	5 yrs+	НЕР	Max/mean pond depths predicted
No	Yes	Yes	No	No	Yes	Range	No	No	List, organized by wetland type	Surface water depth	Yes	No	Yes	otherwise Annually	Annually until bank closes		PS not considered met until 2 yrs after supplemental watering ends
No	Yes	No	Yes	No	Yes	No	No	No	List, organized by wetland type	Surface water depth	Yes	No	Yes	Annually	Annually until bank closes		PS not considered met until 2 yrs after supplemental watering ends
No	Yes	Yes	No	No	Yes	Range	No	Yes	List, organized by wetland type	Surface water depth	Yes	No	Yes	Annually	Annually until bank closes		PS not considered met until 2 yrs after supplemental watering ends
Yes	No	No	No	No	No	No	No	No	List	Piezometers installed where hydrology	Yes	Yes	No	Annually	5 yrs+		
Yes	No	No	No	No	No	No	No	No	List	unknown Piezometers installed where hydrology	Yes	Yes	No	Annually	5 yrs+		
Yes	No	No	No	No	No	No	No	No	List	unknown Piezometers installed where hydrology	Yes	Yes	No	Annually	5 yrs+		
Yes	No	No	No	No	No	No	No	No	List	unknown Piezometers installed where hydrology	Yes	Yes	No	Annually	5 yrs+		
No	Yes	Yes	No	No	Yes	Min/Max, Prob	Fixed	No	Paragraphs	unknown Water delivery system functionality	No	No	No	Monthly for first growing season, then	5 yrs		
No	Yes	Yes	No	No	Yes	Min/Max, Prob	Fixed	No	Paragraphs	Water delivery system functionality	No	No	No	annually Monthly for first growing season, then	5 yrs		
Yes	No	No	No	No	No	No	No	No	Paragraphs	Piezometers - depth to GW; MWAM scores at	Yes	Yes	No	annually Annually	10 yrs, or until PS met for 2 consec yrs		% increase in MWAM used as standard
Yes	No	No	No	No	No	No	No	No	Paragraphs	vrs 3. 5. final Piezometers - depth to GW; MWAM scores at vrs 3. 5. final	Yes	Yes	No	Annually	10 yrs, or until PS met for 2 consec yrs		% increase in MWAM used as standard

//This sheet consolidates the "Comprehensive Data Set" and joins site plans approved on the same date into one project in c

Project Name	State	USACE District	Bank Type	Sponsor	Status	Approval Date	HGM
Inland Sea Shorebird Reserve	UT	Sacramento	Private Commercial	Rio Tinto Kennecott Utah Copper	Approved	11/25/2014	Tidal Fringe, Saline Meadow
Baileys' Meadow	UT	Sacramento	Private Commercial	Diversified Habitats, LLC	Terminated	9/30/1999	
Tetonka I	SD	Omaha	Private Commercial	Tetonka, LLP	Approved	6/20/2008	
North Central Mitigation - Jandl	SD	Omaha	Private Commercial	North Central Mitigation LLC	Approved	1/3/2017	
North Central Mitigation UMBRELLA - Hatch	SD	Omaha	Private Commercial	North Central Mitigation LLC	Approved	4/28/2017	Riverine
Tetonka II	SD	Omaha	Private Commercial	Tetonka, LLP	Approved	12/29/2009	
SDDOT UMBRELLA - Anderson	SD	Omaha	Single-Client	SDDOT	Approved	6/4/2014	Riverine
SDDOT UMBRELLA - Weisbeck	SD	Omaha	Single-Client	SDDOT	Approved	6/10/2015	Riverine
Dumbell Ranch	WY	Omaha	Private Commercial	Sweetwater River Conservancy LLC	Approved	2/27/2014	Riverine
MARS Yellowstone ILF	MT	Omaha	ILF Private Commercial	Montana Aquatic Resource Services	Approved	5/2/2017	
Middle Missouri River	MT	Omaha	Private Commercial	Middle Missouri Mitigation LLC	Approved	2/24/2012	Depressional, Slope, Riverine
Upper Missouri	MT	Omaha	Private Commercial	SRI Missouri Headwaters, LLC	Approved	3/7/2013	
Lower/Middle Yellowstone UMBRELLA - Ringling, Schwarzkoph- Waage	MT	Omaha	Private Commercial	Yellowstone Mitigation LLC	Approved	6/25/2014	Riverine

order to calculate the # of times each set of standards/monitoring has been approved. 1 = Yes, 0 = No.

Cowardin	Modifier	Hydrologic Regime	Creation	Restoration	Enhancement	Preservation	HPS
300000000000000000000000000000000000000							
Emergent	Mudflats, Marsh, Playa		0	1	1	0	1
	Marsh, Wet Meadow	Temporarily,	1	0	1	0	1
Emergent, Aquatic Bed, Forested	Prairie Pothole	seasonally, and semi- permanently flooded	1	1	0	0	1
	Prairie Pothole		1	1	1	0	1
			1	0	0	0	1
	Prairie Pothole		1	0	1	0	1
	Prairie Pothole		1	0	1	0	1
	Prairie Pothole		1	0	1	0	1
Emergent, Unconsolidated Bottom			0	1	1	0	1
Emergent, Forested, Scrub/Shrub			0	0	0	1	O
Emergent, Unconsolidated Bottom			0	0	1	0	1
Emergent			0	1	0	1	1
Emergent, Forested, Rock Bottom, Scrub/Shrub, Unconsolidated Shore			0	1	0	0	1

Specific HPS	Reference Area	Outcome- Based	Quantitative	Saturation	Water Table	Inundation	Water Criteria
0	0	0	0	0	0	0	0
Water delivery system inspected	0	0	0	0	0	0	0
Range temporarily to seasonally flooded; annual spring flooding	0	1	0	0	0	1	Range
1987	0	0	0	0	0	0	0
Anticipated hydrologic regime - shallow ponding	0	1	0	0	0	1	0
Range temporarily to seasonally flooded; annual spring flooding >50% of yrs	0	1	0	0	0	1	Range
1987	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0
1987	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0

Time Criteria	Weather	Format	Data	Quantitative	Subsurface Readings	By Season	Collection Frequency
0	0	List	Staff gauges - pond surface elevation, pond diversions	1	0	1	Weekly during growing season, bi-
0	0	Paragraphs	Water delivery system functionality	0	0	1	weekly otherwise 3/growing season
0	0	List	Depth, source, frequency, duration of inundation; depth to GW	1	1	1	Annually
0	0	List	Photography	0	0	0	Annually
0	0	List	List of primary/ secondary hydrology indicators	0	0	0	Annually
Prob	0	List	Detailed hydrology map (frequency, duration of inundation); HGM assessments	1	0	1	Annually, then biannually once credits are released, then every 5 yrs after bank closes
0	0	List	List of primary/ secondary hydrology indicators	0	0	0	Annually
0	0	List	List of primary/ secondary hydrology indicators	0	0	0	Annually
0	0	Paragraphs	Piezometers - depth to GW; MWAM scores at yrs 3, 5, final	1	1	0	Annually
0	0	Tables	Photography	0	0	0	Unspecified
0	0	List	MWAM	0	0	0	Annually
0	0	List	MWAM	0	0	0	Annually
0	0	List	MWAM	0	0	0	Annually

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Monitoring Period	Functional	Notes
200000000000000000000000000000000000000	Assessment	
5 yrs+	НЕР	Max/mean pond depths predicted
5 yrs	НЕР	
At least 5 yrs, AND 3 yrs after remedial action, then in perpetuity	HGM (prairie pothole)	
At least 5 yrs, or 10 yrs for forest At least 5 yrs, or 10 yrs for forest	HGM (prairie pothole) HGM (prairie pothole)	
At least 5 yrs, AND 3 yrs after remedial action, then in perpetuity	HGM (prairie pothole)	
5 yrs+	HGM (prairie pothole, riverine) HGM (prairie	
5 yrs+	pothole, riverine)	
10 yrs, or until PS met for 2 consec yrs	MWAM	% increase in MWAM used as standard
5 yrs	MWAM	MWAM in years 1 and 5
5 yrs+	MWAM	
5 yrs+	MWAM	
5 yrs+	MWAM	

200000000000000000000000000000000000000	WetBank Gunnison	СО	Sacramento	Private Commercial	Stillwater Preservation LLC	Approved	8/2/1999	
***************************************	Middle South Platte River	со	Omaha	Private Commercial	Land and Water Resources, Inc.	Approved	5/20/1999	
***************************************	Varshall	со	Omaha	Public Commercial	City of Boulder	Sold-Out	4/19/2000	
000000000000000000000000000000000000000	Rocky Mountain Institute	со	Sacramento	Private Commercial	Rocky Mountain Institute	Suspended	6/2/2005	
8	Jpper Clark Fork - Wetland UMBRELLA	MT	Omaha	Private Commercial	Nevada Spring Creek Partners, LLC	Approved	9/21/2006	
550000000000000000000000000000000000000	Jpper Yellowstone	MT	Omaha	Private Commercial	Beartooth Mitigation LLC	Approved	7/27/2011	
000000000000000000000000000000000000000	špring Water Ranch	СО	Sacramento	Private Commercial	Spring Water Ranch, LLC	Suspended	3/31/2005	
000000000000000000000000000000000000000	Finger Rock Preserve	со	Sacramento	Private Commercial	Finger Rock Preserve LLC	Approved	7/14/2008	Slope
1	JDOT Northern Utah County	UT	Sacramento	Single-Client	UDOT	Approved	6/29/2009	
000000000000000000000000000000000000000	MARS Emond Ranch ILF	MT	Omaha	ILF Private Commercial	Montana Aquatic Resource Services	Approved	3/31/2017	
880000000000000000000000000000000000000	Four Mile Creek	со	Omaha	Single-Client	Denver Water	Approved	8/27/2007	Mineral Flats

Forested, Scrub/Shrub	Grass/Grasslike		0	1	0	0	1
Emergent		Seasonally flooded, semi- permanently flooded	1	0	0	0	1
Scrub/Shrub, Emergent, Aquatic Bed							1
Scrub/Shrub, Forested	Grass/Grasslike, Willow Carr		0	1	0	0	1
Emergent, Forested, Scrub/Shrub	Prairie Pothole, Wet Meadow		0	1	0	0	1
Emergent, Scrub/Shrub			0	1	1	0	1
Forested, Grass/Grasslike, Scrub/Shrub			1	1	0	0	1
Forested, Grass/Grasslike, Scrub/Shrub			1	1	0	0	1
Forested, Emergent	Marsh, Wet Meadow		1	1	1	1	1
	Prairie Pothole		0	1	0	0	1
	Fen		0	1	1	0	1

1987	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0
1987 Aerial photography; detailed	0	0	0	0	0	0	0
hydrology map; saturation threshold will be at 12-18 in level; FAC-neutral veg test as surrogate Aerial photography; detailed	0	1	1	1	0	0	Range
hydrology map; saturation threshold will be at 12-18 in level; FAC-neutral veg test as surrogate	0	1	1	1	0	0	Range
As-built, hydrology will support veg comparable to on-site reference	1	0	0	0	0	0	0
Hydrology within 12 in during growing season (6/23-8/28)	0	1	1	0	1	0	Min/Max
Mineral flats: Saturated within 12 in for >= 66% of growing season, and/or avg seasonal table depth within 14.5 in. Fen: Saturated within 12 in for >=47% of growing season (edge areas may be saturated for 12.5% of growing season), and/or avg seasonal table depth within 20 in	1	1	1	1	1	0	Min/Max

0	0	List	"Hydroperiod duration/ mag"; WRAP	0	0	0	Annually
0	0	List	Depth to GW - shallow wells	1	1	1	2/month, plus constant electronic readings, for 5 months/yr
0	0	List	Saturation soil horizon via shallow monitoring wells	1	1	0	Unspecified
0	0	List	Hydroperiod, extent/ duration of inundation, GW monitoring, precip	1	1	1	First three growing seasons, then year-to-year basis in perpetuity
0	0	List	Piezometers, gauges, precip, depth to saturation (surface, 0-6 in, 6-12 in)	1	1	1	During 2 month growing season
0	0	List	Depth to saturation (surface, 0-6 in, 6-12 in)	1	1	0	Annually
0	0	List	Soil saturation via monitoring wells (12-18 in)	1	1	1	/2 wks growing
0	0	List	Soil saturation via monitoring wells (12-18 in)	1	1	1	/2 wks growing
0	0	List	Piezometers installed where hydrology unknown	1	1	0	Annually
Fixed	0	Tables	Soil pits - depth to GW, photography	1	1	0	Years 1, 3
Prob	0	Paragraphs	Duration of soil saturation (12 in), depth to table	1	1	1	July- September

5 yrs	WRAP, HGM, Ecodata	
Until PS have been achieved		Written report of field tile locations submitted to COE; monitoring reports contain hydrographs
Until sold-out		
5 yrs annually, then every 3 yrs in perpetuity		Site plan specifies that if veg is wrong, water levels will be manipulated Hydrologic regime
At least 5 yrs, AND 3 yrs after remedial action		specified by wetland location in site plan proposed conditions
5 yrs+		conditions
5 growing seasons		
5 yrs		
5 yrs+		
5 yrs		
5 yrs or at discretion of IRT		HPS Format: one p specifies HPS for wetland type, one p explains how HPS were derived from ref

Mesa County Wetland UMBRELLA	со	Sacramento	Public Commercial	Mesa County Dept. of Public Works	Approved	6/1/2005
Mile High	СО	Omaha	Private Commercial	Mile High Wetland Group LLC	Sold-Out	10/12/1999
Riverdale	со	Omaha	Private Commercial	South Platte Wetlands LLC	Approved	2/1/2002
NDDOT UMBRELLA - Foss, Herda, Manning, Trego	ND	Omaha	Single-Client	NDDOT	Approved	6/24/2013
NDDOT UMBRELLA - Kirkeby/ Schuster, Kueber	ND	Omaha	Single-Client	NDDOT	Approved	8/3/2015
Animas River Wetlands	СО	Sacramento	Private Commercial	Animas River Wetlands, LLC	Approved	8/2/2010
Ducks Unlimited - Wahlund	ND	Omaha	ILF Private Nonprofit	Ducks Unlimited - Great Plains Region	Approved	2/4/2016

Emergent	Wet Meadow		1	1	1	0	1
Emergent, Aquatic Bed, Scrub/Shrub	Marsh, Persistent, Rooted Vascular Aquatic, Wet Meadow, Willow Carr		1	0	1	0	1
Emergent	Wet Meadow		1	0	1	0	1
	Prairie Pothole		0	1	0	1	1
	Prairie Pothole		0	1	0	0	1
Open Water, Forested, Scrub/Shrub	Deep Marsh, Pond, Cottonwood, Wet Meadow, Willow- Alder, Marsh	Permanently inundated, seasonally deeply saturated, seasonally saturated, semipermanently inundated	1	0	0	0	1
	Prairie Pothole		1	1	1	1	1

Site plan specifies that wetland hydrology should be exhibited 30 days after recontouring Water delivery/control systems		0	0	0	0	0	0
operational; piezometric evidence of achievement of design water elevation (SW or GW) can be furnished by sponsor	0	0	0	0	0	0	0
Wet meadow: Saturation within 18 in. Emergent: Saturation within 3 in	0	1	1	1	0	0	Min/Max
1987	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0
Deep Marsh: Permanently inundated; 12-28 in target; should stay b/w 4-36 in at all times. Open Water: Permanently inundated; 48-72 in target for deepest portions. Forested Cottonwood: Seasonally deeply saturated; 12 48 in below surface for min 14 consec days during growing season for 5/10 yrs. Wet Meadow: Seasonally saturated; min 14 consec days of ponding or water table max 12 in during growing season for min 5/10 yrs. Scrub/Shrub: Seasonally saturated; min 14 consec days of ponding or water table max 12 in during growing season for min 5/10 yrs. Marsh: Semipermanently inundated; 0-14 in for min 50% of growing season in normal years	1	1	1	1	1	1	Range, Min/Max
Fringe should be expected to be seasonal, interior could be considered semi-permanent	0	1	0	0	0	0	0

Min/Max	0	List	Piezometers - depth to GW, depth to saturation, depth of inundation (gauges)	1	1	1	At least annually
0	0	List	Piezometers	1	1	1	"Frequency sufficient to demonstrate wetland hydrology"
0	0	Paragraphs	Piezometers	1	1	1	Annually
0	0	List	Inspection of infrastructure	0	0	1	Annually for 5 yrs, then once every 5 yrs Annually for 5
0	0	List	Inspection of infrastructure	0	0	1	yrs, then once every 5 yrs
Min/Max, Prob	1	Tables	Staff gauge - depth of inundation	1	0	1	/2 wks growing, /2 months otherwise
0	0	Paragraphs	Delineation	0	0	0	Annually

	ı	ı
5 yrs+		
4 growing	g seasons	Hydrologic regimes for each wetland type specified in phasing plan
4 growing	g seasons	Hydrologic regimes for more specific wetland type specified in phasing plan
In perpet until waiv Corps		
In perpet until waiv Corps		
Until fina been ach consec yr	ieved for 2	
5 yrs		
		l

Ducks Unlimited - Beaver Bay	ND	Omaha	ILF Private Nonprofit	Ducks Unlimited - Great Plains Region	Approved	10/27/2016
Warner	UT	Sacramento	Private Commercial	James Warner	Terminated	4/25/2002
Machine Lake	UT	Sacramento	Private Commercial	R&P Wetlands & Waterfowl, LLC	Approved	8/31/2007
Limon	со	Albuquerque	Single-Client	Colorado DOT	Approved	7/1/1996
El Paso County - UMBRELLA	СО	Albuquerque	Single-Client	El Paso County Environmental Services Dept.	Approved	4/30/2013

	Prairie Pothole  Marsh, Wet  Meadow	1	1	0	0	1
	Marsh, Wet Meadow, Playa	0	1	1	0	1
Emergent, Broadleaf Deciduous, Aquatic Bed	Persistent, Non- Persistent, Willow, Rooted Vascular	1	0	0	0	1
Emergent	Persistent	0	1	1	1	1

Fringe should be expected to be seasonal, interior could be considered semi-permanent	0	1	0	0	0	0	0
Inundation >=6 in over 67% of site; continuous inundation during growing season	0	1	1	0	0	1	Min/Max, Prob
Marsh: Ponding for much of the spring and summer, refilled in fall; depth ranging from 1-4 ft. Wet Meadow: Shallow flooding and/or saturated soil conditions for much or spring and early summer, dry out in summer/fall. Playa: Shallow ponding 2-10 in; may occur in normal late fall/winter/early spring, or for MU 13, in late spring and early fall	0	1	1	1	0	1	Range
75% cover by herbaceous FACW or wetter; 50% cover by woody FACW or wetter	0	1	1	0	0	0	0
Hydrology must meet duration of saturation/inundation in COE quantitative definition by wetland type; 70% of dominant species must be FAC or wetter	0	1	1	0	0	1	0

0	0	Paragraphs	Delineation	0	0	0	Annually
Fixed	0	Paragraphs	Water delivery system functionality	0	0	0	Monthly for first growing season, then annually
0	1	List, organized by wetland type	Surface water depth	1	0	1	Annually
0	0	List	Acreage, wetland classes, vegetative monitoring	0	0	1	Annually
0	0	List, paragraphs	List of primary/ secondary hydrology indicators, hydrophytic veg cover	0	0	1	Annually

5 yrs		
5 yrs		
Annually until bank closes		PS not considered met until 2 yrs after supplemental watering ends
5 yrs or at discretion of IRT	HEP, HGM	Functional assessments used in mitigation ratios
5 yrs AND 3 yrs of no supplemental watering after PS met		

1	/This she	et compiles	administrative	information or	each project.

// this sheet compiles administrative into	Ulliatio		cc.							
Name	State	USACE	Bank Type	Bank Sponsor	Bank Status	Approval	Acreage	Credit Classification	Mitigation Type(s)	Notes
realine	Olute	District	Daille Type	bull opensel	Dann Status	Date	7 tor cage	or care diassification	rraigation type(s)	770103
Limon Mitigation Bank	CO	Albuquerque	Single-Client	Colorado DOT	Approved	7/1/1996	14	Palustrine Emergent	Creation	
Middle South Platte River	CO	Omaha	Private Commercial	Land and Water Resources, Inc.	Approved	5/20/1999	62.64	Wetlands	Creation	
WetBank Gunnison	CO	Sacramento	Private Commercial	Stillwater Preservation LLC	Approved	8/2/1999	109	None	Restoration	
Baileys' Meadow	UT	Sacramento	Private Commercial	Diversified Habitats, LLC	Terminated 6/12/2017	9/30/1999	96	Emergent Marsh, Freshwater Marsh Complex (creation), Freshwater Wet Meadow	Restoration, Enhancement	
Mile High Bank	со	Omaha	Private Commercial	Mile High Wetland Group LLC	Sold-Out	10/12/1999	30.3	Marsh, Moist Meadow, Wet Meadow, Wetlands, Willow	Creation, Enhancement	
					8/29/2012			Shrubland	,	
Marshall	CO	Omaha	Public Commercial	City of Boulder, CO	Sold-Out	4/19/2000	13	Wetlands	Sold-Out	
Riverdale	CO	Omaha	Private Commercial	South Platte Wetlands LLC	Approved	2/1/2002	55	Wetlands	Creation, Enhancement	
Spring Water Ranch	СО	Sacramento	Private Commercial	Spring Water Ranch, LLC	Suspended 3/27/2013	3/31/2005	60	Wetlands	Creation, Restoration	
Mesa County Wetland UMBRELLA	СО	Sacramento	Public Commercial	Mesa County Dept. of Public Works	Approved	6/1/2005	8.1+	Wetlands	Creation, Enhancement,	
Rocky Mountain Institute	СО	Sacramento	Private Commercial	Rocky Mountain Institute	Suspended	6/1/2005	60	Wetlands	Restoration Restoration	
Upper Clark Fork - Wetland UMBRELLA	MT	Omaha	Private Commercial	Nevada Spring Creek Partners, LLC	3/19/2013 Approved	9/21/2006	264.9	Wet Meadow	Restoration	
Four Mile Creek Mire Bank	co	Omaha	Single-Client	Denver Water	Approved	8/27/2007	96.1	Fen	Restoration, Enhancement	
Machine Lake	UT	Sacramento	Private Commercial	R&P Wetlands & Waterfowl, LLC	Approved	8/31/2007	1077	Freshwater Marsh Complex, Freshwater Wet Meadow,	Restoration, Enhancement	
Tetonka I	SD	Omaha	Private Commercial	Tetonka, LLP	Approved	6/20/2008	76.19	Mudflat Playa/Shallow Water, Saline Wet Meadow Palustrine Emergent Wetland	Restoration, Creation	
Finger Rock Preserve	CO	Sacramento	Private Commercial	Finger Rock Preserve LLC	Approved	7/14/2008	255	Wetlands	Creation, Restoration	
TINGER ROCK TESETVE		Sacramento	Trivate commercial	TINGET NOOK T TESETVE EEE	Approved	771-72000	233	VVCddiada	creation, nestoration	
UDOT Northern Utah County	UT	Sacramento	Single-Client	Utah DOT	Approved	6/29/2009	112.21	Forested Wetland, Wetlands	Creation, Restoration, Enhancement, Preservation	
Tetonka II	SD	Omaha	Private Commercial	Tetonka, LLP	Approved	12/29/2009	103.3	Palustrine Emergent Wetland	Enhancement, Creation	
Animas River Wetlands	СО	Sacramento	Private Commercial	Animas River Wetlands, LLC	Approved Suspended	8/2/2010	52	Shaded Riverine Aquatic Restored, Wetlands	Creation	
Warner Mitigation Bank	UT	Sacramento	Private Commercial	James Warner	7/1/2003, Terminated	2/1/2011	64	Emergent Marsh, Freshwater Wet Meadow, Saline Wet Meadow, Wet Meadow	Restoration, Enhancement, Creation	Clarification of dates needed
Upper Yellowstone Mitigation Bank	MT	Omaha	Private Commercial	Beartooth Mitigation LLC	2/6/2017 Approved	7/27/2011	42.7	Palustrine Emergent/Palustrine Scrub/Shrub	Enhancement, Restoration	
Middle Missouri River Bank	MT	Omaha	Private Commercial	Middle Missouri Mitigation LLC	Approved	2/24/2012	32.9	Palustrine Emergent Wetland, persistent & seasonally	Enhancement	
Upper Missouri Mitigation Bank	MT	Omaha		SRI Missouri Headwaters, LLC	Approved	3/7/2013	127	flooded Palustrine Emergent, Scrub-Shrub, Forested Wetland	Restoration, Preservation	
-									Restoration, Enhancement,	
El Paso County - UMBRELLA	CO		Single-Client	El Paso County Environmental Services Dept.	Approved	4/30/2013	4.55	Palustrine Emergent persistent	Preservation	
NDDOT UMBRELLA - Foss	ND	Omaha	Single-Client	NDDOT	Approved	6/24/2013	48.67	Pothole	Restoration	
NDDOT UMBRELLA - Herda	ND	Omaha	Single-Client	NDDOT	Approved	6/24/2013	13.59	Pothole	Restoration, Preservation	
NDDOT UMBRELLA - Manning	ND	Omaha	Single-Client	NDDOT	Approved	6/24/2013	153.69	Pothole	Restoration, Preservation	
NDDOT UMBRELLA - Trego Bank Site	ND	Omaha	Single-Client	NDDOT	Approved	6/24/2013	5.49	Pothole	Restoration, Preservation	
Dumbell Ranch Bank	WY	Omaha	Private Commercial	Sweetwater River Conservancy LLC	Approved	2/27/2014	740.59	Wetlands	Restoration, Enhancement	
				•	• • • • • • • • • • • • • • • • • • • •				•	
SDDOT UMBRELLA - Anderson	SD	Omaha	Single-Client	SDDOT	Approved	6/4/2014	47	Depressional	Creation, Enhancement	
Lower/Middle Yellowstone UMBRELLA - Ringling Ranch	MT	Omaha	Private Commercial	Yellowstone Mitigation LLC	Approved	6/25/2014	5.64	Wetlands	Restoration	
Lower/Middle Yellowstone UMBRELLA - Schwarzkoph-Waage	MT	Omaha	Private Commercial	Yellowstone Mitigation LLC	Approved	6/25/2014	68	Wetlands	Restoration	
Inland Sea Shorebird Reserve Bank	UT	Sacramento	Private Commercial	Rio Tinto Kennecott Utah Copper	Approved	11/25/2014	3879	Emergent Marsh, Mudflat Playa/Shallow Water, Saline Wet Meadow	Enhancement	
SDDOT - Weisbeck	SD	Omaha	Single-Client	SDDOT	Approved	6/10/2015	36.69	Depressional, Riverine	Creation, Enhancement	
NDDOT UMBRELLA - Kirkeby/ Schuster	ND	Omaha	Single-Client	NDDOT	Approved	8/3/2015	75.51	Pothole	Restoration	
NDDOT UMBRELLA - Kueber	ND	Omaha	Single-Client	NDDOT		8/3/2015	44.19	Pothole	Restoration	
NDDOT OMBRELLA - Ruebei	ND	Offialia	Single-Cheff	NDDOT	Approved	0/3/2013	44.13	rothole	Restoration	
Ducks Unlimited - Wahlund Bank Site	ND	Omaha	ILF - Private Nonprofit	Ducks Unlimited - Great Plains Region	Approved	2/4/2016	57.16	Pothole	Creation, Restoration, Enhancement, Preservation	
Ducks Unlimited - Beaver Bay Site	ND	Omaha	ILF - Private Nonprofit	Ducks Unlimited - Great Plains Region	Approved	10/27/2016	69.75	Pothole	Restoration, Creation, Enhancement	
North Central Mitigation - Jandl	SD	Omaha	Private Commercial	North Central Mitigation LLC	Approved	1/3/2017	40.44	Depressional	Creation, Restoration, Enhancement	
MARS - Emond Ranch ILF	MT	Omaha	ILF - Private Commercial	Montana Aquatic Resource Services	Approved	3/31/2017	10.7	Prairie Pothole	Restoration	
North Central Mitigation UMBRELLA - Hatch	SD	Omaha	Private Commercial	North Central Mitigation LLC	Approved	4/28/2017	42	None	Creation	
MARS - Yellowstone RO-08	MT	Omaha	ILF - Private Commercial	Montana Aquatic Resource Services	Approved	5/2/2017	11.91	Emergent, Forested, Scrub/Shrub	Preservation	

//This sheet contains a description of each project's HPS.																					
Name	State	USACE e District	Reference Area?	Any HPS?	HPS Beyond 1987?	Add'l HPS	Are Add'l HPS Objective?	Add'l HPS Performance- Based?	Add'l HPS Quantitative?	Saturation Specified?	Depth to Water Table Specified?	Inundation Specified?	Water Min, Max, Range, Fixed #, Prob?	Time Min, Max, Range, Fixed #, Prob?	HPS Incorporate Weather Conditions?		HPS Format	Multiple Wetland Types?	Wetland Type(s)	HPS Differentiated by Wetland Type?	Notes
Animas River Wetlands	СО	Sacramento	Yes	Yes	Yes	Permanent inundation of pond (48-72 in); permanent inundation of deep marsh (12 28 in target, 4-36 in max); marsh semi-permanently inundated (0-14 in >=50% of time in normal yrs); seasonally saturated wet meadow (>=14 consec. days ponding, or table <= 12 in, for 5 yrs/10 = 50% prob); willow shrub same as wet meadow; cottonwood "deeply saturated" (table 48-12 in below, >=14 consec. days during growing season, 5/10 yrs)	y Ves	Yes	Yes	Yes	Yes	Yes	Range	Min, prob	Yes	Development plan	Tables; one table per wetland type; each PS gets its own row; columns are success criteria, PS, yr 1-4/final, monitoring method, remedial measures		Aquatic, Marsh, Wet Meadow, Willow, Cottonwood	Yes	
El Paso County UMBRELLA - Falcon Vista	CO	Albuquerque	e No	Yes	Yes	Hydrology must meet duration of saturation/inundation in COE quantitative definition by wetland type; 70% of dominant species must be FAG or wetter	Yes	Yes	Yes	No	No	Yes	Range	Range	No	Instrument, site plan	List, paragraphs	Yes	Emergent persistent	Yes	HPS differentiated by hydrologic regime, but Cowardin classification used does not specify hydrology
Finger Rock Preserve	CO	Sacramento	No	Yes	Yes	Aerial photography; detailed hydrology map; saturation threshold will be at 12-18 in level; FAC-neutral veg test as surrogate	Yes	Yes	Yes	Yes	No	No	Range	No	No	Instrument	List	Yes	Slope, Grass/ Grasslike, Scrub/Shrub, Forested	No	
Four Mile Creek Mire Bank	<b>'</b> co	Omaha	Yes	Yes	Yes	Fens - soil saturated within 12 in for >= 66% of growing season, and/or avg seasonal table depth within 14.5 in; mineral soil wetland - saturated within 12 in for >=47% of growing season (edge areas may be saturated for 12.5% of growing season), and/or avg seasonal table depth within 20 in of surface	Yes	Yes	Yes	Yes	Yes	No	Min	Min	No	Instrument	Paragraphs; one specifying HPS for the wetland type, followed by one explaining how HPS were derived from reference	e Yes	Fen, Mire, Palustrine Emergent, Slope	Yes	
Limon Mitigation Bank	, co	Albuquerque	. No	Yes	Yes	75% cover by herbaceous FACW or wetter; 50% cover by woody FACW or wetter		Yes	Yes	No	No	No	No	No	No	Instrument	List	Yes	Palustrine emergent persistent, Palustrine emergent non- persistent, Palustrine broadleaf deciduous (willow), Aquatic bed rooted vascular, Open	No	
Marshall	СО	Omaha	No	Yes	No	N/A Site plan specifies that	No	No	No	No	No	No	No	No	No	Instrument	List	Yes	Scrub/Shrub, Emergent, Aquation Bed	No	
Mesa County Wetland UMBRELLA	СО	Sacramento	No	Yes	No		Yes	Yes	No	No	No	No	No	Fixed #	No	Instrument	List	Yes	Wet Meadow, Emergent	No	
Middle South Platte River	со	Omaha	No	Yes	Yes	All field tiles shall be disabled; written report of field tile locations submitted to COE	; Yes	No	No	No	No	No	No	No	No	Instrument	List	Yes	PEMC, PEMF	No	

Mile High Bank <b>CO</b>	Omaha	No	Yes	Yes	Water delivery/control systems operational; piezometric evidence of achievement of design water elevation (SW or GW) can be furnished by sponsor	No	Not required	No	Instrument	List	Yes	Palustrine: Emergent, Scrub/Shrub, Aquatic Bed; moist meadow; wet meadow; marsh; willow	No	Hydrologic regimes for each wetland type specified in phasing plan						
Riverdale CO	Omaha	No	Yes	Yes	Emergent - soil saturation within 3 in; wet meadow - saturation within 12 in (under "Assessing Eligibility for Credits"	r Yes	Yes	Yes	Yes	No	No	Min	No	No	Instrument	List	Yes	Palustrine: Emergent, Scrub/Shrub, Aquatic Bed	Yes	Hydrologic regimes for each wetland type specified in phasing plan Site plan
Rocky Mountain CO Institute	Sacramento	No	Yes	No	N/A	No	No	No	No	No	No	No	No	No	Instrument	List	Yes	Ranging grasslike to forested	No	specifies that if veg is wrong, water levels will be manipulated
Spring Water co Ranch	Sacramento	No	Yes	Yes	Aerial photography; detailed hydrology map; saturation threshold will be at 12-18 in level; FAC-neutral veg test as surrogate	Yes	Yes	Yes	Yes	No	No	Range	No	No	Instrument	List	Yes	Riparian: Grass/Grasslike, Scrub/Shrub, Forested	No	
WetBank CO Gunnison	Sacramento	No	Yes	No	N/A	No	No	No	No	No	No	No	No	No	Instrument	List	Yes	Grass/ Grasslike, Scrub/Shrub, Forested	No	Functional assessments determine lift
Lower/Middle Yellowstone MT UMBRELLA - Ringling Ranch Lower/Middle	Omaha	No	Yes	No	N/A	No	No	No	No	No	No	No	No	No	Instrument	List	No	Palustrine Emergent	No	
Yellowstone UMBRELLA - MT Schwarzkoph- Waage	Omaha	No	Yes	No	N/A	No	No	No	No	No	No	No	No	No	Instrument	List	Yes	Scrub/Shrub, Forested	No	
MARS - Emond Ranch ILF	Omaha	No	Yes	Yes	Hydrology within 12 in during growing season (6/23-8/28)	g Yes	Yes	Yes	No	Yes	No	Min	Fixed #	No	Site plan	Tables	No	Prairie Pothole		
MARS - Yellowstone	Omaha	No	Yes	No	N/A	No	No	No	No	No	No	No	No	No	Site plan	Tables	Yes	Emergent, Forested, Scrub/Shrub	No	
Middle Missouri MT River Bank	Omaha	No	Yes	No	N/A	No	No	No	No	No	No	No	No	No	Instrument	List	Yes	Riverine, Slope, Depressional	No	
Upper Clark Fork - Wetland MT UMBRELLA	Omaha	No	Yes	No	N/A	No	No	No	No	No	No	No	No	No	Instrument	List	Yes	Palustrine Emergent, Wet Meadow, Prairie Pothole, Forested, Scrub/Shrub	No	Hydrologic regime specified by wetland location in site plan proposed conditions
Upper Missouri Mitigation Bank	Omaha	No	Yes	No	N/A	No	No	No	No	No	No	No	No	No		List	Yes	Emergent, Forested, Scrub/Shrub	No	MWAM
Upper Yellowstone MT Mitigation Bank	Omaha	No	Yes	No	N/A	No	No	No	No	No	No	No	No	No	Instrument	List	Yes	Scrub/Shrub, Emergent	No	
Ducks Unlimited - ND Beaver Bay Site	Omaha	No	Yes	Yes	Fringe should be expected to be seasonal, interior could be considered semi-permanent		Yes	No	No	No	Yes	No	No	No	Instrument	Paragraphs	No	Prairie Pothole		
Ducks Unlimited - Wahlund Bank ND Site	Omaha	No	Yes	Yes	Fringe should be expected to be seasonal, interior could be considered semi-permanent		Yes	No	No	No	Yes	No	No	No	Site plan	Paragraphs	No	Prairie pothole		
NDDOT - Foss ND NDDOT - Herda ND	Omaha Omaha	No No	Yes Yes	No No	N/A N/A	No No	No No	No No	No No	No No	No No	No No	No No	No No	Instrument Instrument	List List	No No	Prairie Pothole Prairie Pothole		
NDDOT - Kueber ND		No	Yes	No	N/A	No	No	No	No	No	No	No	No	No	Instrument	List	No	Prairie Pothole		
NDDOT - Trego ND	Omaha	No	Yes	No	N/A	No	No	No	No	No	No	No	No	No	Instrument	List	No	Prairie Pothole		
NDDOT - Kirkeby/Schuster	Omaha	No	Yes	No	N/A	No	No	No	No	No	No	No	No	No	Instrument	List	No	Prairie Pothole		
NDDOT - ND Manning	Omaha	No	Yes	No	N/A	No	No	No	No	No	No	No	No	No	Instrument	List	No	Prairie Pothole		

North Central Mitigation UMBRELLA - Hatch	SD	Omaha	No	Yes	Yes	Anticipated hydrologic regime - shallow ponding	No	Yes	No	No	No	Yes	No	No	No	Site plan	List	No	Riverine depressional	No	Total functional lift used in credit release
North Central Mitigation UMBRELLA - Jandl	SD	Omaha	No	Yes	No	N/A	No	No	No	No	No	No	No	No	No	Instrument	List	No	Prairie pothole	No	Total functional lift used in credit release
Anderson	SD	Omaha	No	Yes	No	N/A	No	No	No	No	No	No	No	No	No	Instrument	List	Yes	Depressional emergent, Riverine; Prairie Pothole	No	HGM used in credit release
SDDOT UMBRELLA - S Weisbeck	SD	Omaha	No	Yes	No	N/A	No	No	No	No	No	No	No	No	No	Instrument	List	Yes	Depressional emergent, Riverine	No	HGM used in credit release
	SD	Omaha	No	Yes	Yes	Range temporarily to seasonally flooded; annual spring flooding	Some	Yes	Some	No	No	Yes	Range	No	No	Instrument	List	Yes	Prairie pothole, PEMA, PEMC, PABFx, PFOA	No	HGM used in credit release
Tetonka II S	SD	Omaha	No	Yes	Yes	Range temporarily to seasonally flooded; annual spring flooding >50% of yrs	Some	Yes	Some	No	No	Yes	Range	Min	No	Instrument	List	Yes	Prairie pothole, palustrine emergent	No	HGM used in credit release
Baileys' Meadow J	UT	Sacramento	No	Yes	Yes	Water delivery system inspected	Yes	No	No	No	No	No	No	No	No	Site Plan	Paragraphs	Yes	Emergent marsh, wet meadow	No	HEP used in credit release
Inland Sea Shorebird U Reserve Bank	UT	Sacramento	No	No	No	N/A	No	No	No	No	No	No	No	No	No	Site Plan	List	Yes	Saline playa, mud flats, saline meadow, emergent marsh	No	HEP used in credit release
Machine Lake U	UT	Sacramento		Yes	Yes	Wet meadow - shallow flooding and/or saturated soil for much of spring and early summer, dry out in summer/fall; emergent marsh ponding for much of spring and summer, refilled in fall, depth ranging 1-4 ft; mudflat playa - shallow ponding 2-10 in, normal late fall/winter/early spring, or for one site in late spring/early	- Yes	Yes	Yes	Yes	No	Yes	Range	No	Yes	Instrument	List, organized by wetland type	Yes	Saline wet meadow, freshwater wet meadow, emergent marsh, lacustrine marsh, mudflat/playa	Yes	PS not considered met until 2 yrs after supplemental watering ends
UDOT Northern Utah County	UT	Sacramento	Yes	Yes	Yes	fall As-built, hydrology will support veg comparable to on- site reference	- No	No	No	No	No	No	No	No	No	Instrument	List	Yes	Wet meadow, emergent marsh, forested	No	
Warner Mitigation Bank	UT	Sacramento	No	Yes	Yes	Inundation >=6 in over 67% of site; continuous inundation during growing season	Yes	Yes	Yes	No	No	Yes	Min	No	No	Instrument - monitoring plan	Paragraphs	Yes	Wet meadow, emergent marsh	No	
Dumbell Ranch Bank	WY	Omaha	Yes	Yes	No	N/A	No	No	No	No	No	No	No	No	No	Instrument	Paragraphs	No	Palustrine emergent	No	% increase in MWAM used as standard

## //This sheet contains data on each project's monitoring plan as it appears in its instrument/site plan.

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Name	Stat e	USACE District	Hydrology Monitored Quantitatively?	Subsurface Measurements ?	Data Collected	Data Collection Instruments Specified?	Plan Mentions Season?	Frequency of Data Collection	Monitoring Period	Notes		
Animas River Wetlands	со	Sacramento	Yes	No	Staff gauge - depth of inundation	Yes	Yes	/2 wks growing, /2 months otherwise	5 yrs or at discretion of IRT			
El Paso County UMBRELLA - Falcon Vista	СО	Albuquerque	No	No	List of primary/ secondary hydrology indicators, hydrophytic veg cover	No	Yes	July	5 yrs AND 3 yrs of no supplemental watering after PS met			
Finger Rock Preserve	CO	Sacramento	Yes	Yes	Soil saturation via monitoring wells (12-	Yes	Yes	/2 wks growing	5 yrs			
_	-	Sacramento	103	103	18 in) Duration of soil	103	763	/ 2 WK3 B10 WIII B	3 ,13			
Four Mile Creek Mire Bank	СО	Omaha	Yes	Yes	saturation (12 in), depth to table	No	Yes	July-September	5 yrs or at discretion of IRT			
Limon Mitigation Bank	со	Albuquerque	No	No	Acreage, wetland classes, vegetative monitoring	No	Yes	Annually	5 yrs or at discretion of IRT			
Marshall	со	Omaha	Yes	Yes	Depth to saturation via shallow monitoring wells	Yes	No	Unspecified	Until sold-out			
Mesa County Wetland UMBRELLA	со	Sacramento	Yes	Yes	Piezometers - depth to GW, depth to saturation, depth of inundation (gauges)	Yes	No	At least annually	5 yrs+			
Middle South Platte River	со	Omaha	Yes	Yes	Soil saturation - shallow wells	Yes	Yes	Collected during growing season (annually? Unclear)	Until PS have been achieved			
Mile High Bank	со	Omaha	Yes	Yes	Piezometers	Yes	Yes	"Frequency sufficient to demonstrate wetland hydrology"	Unclear			
Riverdale	СО	Omaha	Yes	Yes	Piezometers	Yes	Yes	"Frequency sufficient to demonstrate wetland hydrology"	4 growing seasons			
Rocky Mountain Institute	СО	Sacramento	Yes	Yes	Hydroperiod, extent/duration of inundation, GW monitoring, precip	No	Yes	First three growing seasons, then annually in perpetuity	5 yrs annually, then every 3 yrs in perpetuity			

Spring Water Ranch	со	Sacramento	Yes	Yes	Soil saturation via monitoring wells (12- 18 in)	Yes	Yes	/2 wks growing	5 growing seasons	
WetBank Gunnison	со	Sacramento	No	No	"Hydroperiod duration/mag"; HGM, WRAP, EcoData	No	No	Annually	5 growing seasons	
Lower/Middle Yellowstone UMBRELLA - Ringling Ranch	МТ	Omaha	No	No	MWAM	No	No	Annually	5 yrs+	
Lower/Middle Yellowstone UMBRELLA - Schwarzkoph-	MT	Omaha	No	No	MWAM	No	No	Annually	5 yrs+	
Waage MARS - Emond Ranch ILF	MT	Omaha	Yes	Yes	Soil pits - depth to GW, photography	' No	No	Years 1, 3	5 yrs	
MARS - Yellowstone RO-08	MT	Omaha	No	No	Photography	No	No	Unspecified	5 yrs	MWAM in years 1 and 5
Middle Missouri River Bank	МТ	Omaha	No	No	MWAM	No	No	Annually	5 yrs+	
Upper Clark Fork - Wetland UMBRELLA	MT	Omaha	Yes	Yes	Piezometers, gauges, precip, depth to saturation (surface, 0- 6 in, 6-12 in)	Yes	Yes	During 2 month growing season	At least 5 yrs, AND 3 yrs after remedial action	Supplemental grid-point sampling/2 yrs (Cowardin surface hydro classification)
Upper Missouri Mitigation Bank	MT	Omaha	No	No	MWAM	No	No	Annually	5 yrs+	
Upper Yellowstone Mitigation Bank	MT	Omaha	Yes	Yes	Depth to saturation (surface, 0-6 in, 6-12 in)	No	No	Annually	5 yrs+	Supplemental grid-point sampling/2 yrs (Cowardin surface hydro classification)
Ducks Unlimited - Beaver Bay Site	ND	Omaha	No	No	Delineation	No	No	Annually	5 yrs	
Ducks Unlimited - Wahlund Bank Site	ND	Omaha	No	No	Delineation	No	No	Annually	5 yrs	
NDDOT - Foss	ND	Omaha	No	No	Infrastructure inspected	No	Yes	Annually for 5 yrs, then every 5 yrs in perpetuity	In perpetuity, or until waived by Corps	
NDDOT - Herda	ND	Omaha	No	No	Infrastructure inspected	No	Yes	Annually for 5 yrs, then every 5 yrs in perpetuity	In perpetuity, or until waived by Corps	

NDDOT - Kueber NDDOT - Manning	ND ND	Omaha Omaha	No No	No No	Infrastructure inspected Infrastructure inspected	No No	Yes	Annually for 5 yrs, then every 5 yrs in perpetuity Annually for 5 yrs, then every 5 yrs in perpetuity	In perpetuity, or until waived by Corps In perpetuity, or until waived by Corps	
NDDOT - Trego	ND	Omaha	No	No	Infrastructure inspected	No	Yes	Annually for 5 yrs, then every 5 yrs in perpetuity	In perpetuity, or until waived by Corps	
NDDOT - Kirkeby/Schuster	ND	Omaha	No	No	Infrastructure inspected	No	Yes	Annually for 5 yrs, then every 5 yrs in perpetuity	In perpetuity, or until waived by Corps	
North Central Mitigation - Jandl	SD	Omaha	No	No	Photography	No	No	Annually	At least 5 yrs, or 10 yrs for forest	Supplemental grid-point sampling/2 yrs
North Central Mitigation UMBRELLA - Hatch	SD	Omaha	No	No	List of primary/ secondary hydrology indicators	No	No	Annually	At least 5 yrs, or 10 yrs for forest	Supplemental grid-point sampling/2 yrs
SDDOT - Weisbeck	SD	Omaha	No	No	List of primary/ secondary hydrology indicators	No	No	Annually	5 yrs+	
SDDOT UMBRELLA - Anderson	SD	Omaha	No	No	List of primary/ secondary hydrology indicators	No	No	Annually	5 yrs+	
Tetonka l	SD	Omaha	Yes	Yes	Depth, source, frequency, duration of inundation; depth to GW	: No	Yes	Annually	At least 5 yrs, AND 3 yrs after remedial action, then in perpetuity	,
Tetonka II	SD	Omaha	Yes	No	Detailed hydrology map (frequency, duration of inundation); HGM assessments	No	Yes	Annually, then biannually once credits are released, then every 5 yrs after bank closes	At least 5 yrs, AND 3 yrs after remedial action, then in perpetuity	,
Baileys' Meadow	UT	Sacramento	No	No	Water delivery system functionality	No	Yes	3/growing season	5 yrs	
Inland Sea Shorebird Reserve Bank	tu ^k	Sacramento	Yes	No	Staff gauges - pond surface elevation, pond diversions	Yes	Yes	Weekly during growing season, bi- weekly otherwise	5 yrs+	
Machine Lake	UT	Sacramento	Yes	No	Surface water depth	No	Yes	Annually	Annually until bank closes	
UDOT Northern Utah County	UT	Sacramento	Yes	Yes	Piezometers installed where hydrology unknown	Yes	No	Annually	5 yrs+	

Warner Mitigation Bank	UT	Sacramento	No	No	Water delivery system functionality	No	No	Monthly for first growing season, then annually	5 yrs
Dumbell Ranch Bank	WY	Omaha	Yes	Yes	Piezometers - depth to GW	Yes	No	Annually	10 yrs or at discretion of IRT